

Title (en)

PROCESS FOR PRODUCING ULTRAFINE POWDERS BASED ON POLYAMIDES, ULTRAFINE POLYAMIDE POWDERS AND THEIR USE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON ULTRAFEINEN PULVERN AUF BASIS VON POLYAMIDEN, ULTRAFEINEN POLYAMIDPULVERN SOWIE DEREN VERWENDUNG

Title (fr)

PROCEDE DE FABRICATION DE POUDRES ULTRAFINES A BASE DE POLYAMIDES, POUDRES ULTRAFINES DE POLYAMIDE ET LEUR UTILISATION

Publication

**EP 1943296 A1 20080716 (DE)**

Application

**EP 06807176 A 20061012**

Priority

- EP 2006067308 W 20061012
- DE 102005053071 A 20051104

Abstract (en)

[origin: US2012264877A1] Process for preparing ultrafine powders based on polyamides by contacting polyamides having a relative solution viscosity  $\eta_{rel}$  in the range from 1.5 to 2.0, measured in 0.5% m-cresol solution at 25° C., with an alcoholic medium in the presence of inorganic particles suspended therein under the action of pressure and/or temperature to generate an at least partial solution, and then precipitating the polyamide from the at least partial solution; the resulting ultrafine polyamide powders have a specific BET surface area of 5-100 m<sup>2</sup>/g; a fineness d<sub>50</sub> of less than 70 µm; an apparent density AD from 250 to 1000 g/l; and a particle content of 0.1 to 80% by weight of inorganic particles based on the total weight of the polyamide powder; which powders are equally suitable for coatings and for mouldings and components with improved mechanical properties.

IPC 8 full level

**C08J 3/12** (2006.01); **C09D 177/00** (2006.01)

CPC (source: EP US)

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